

(19) World Intellectual Property
Organization
International Bureau



(43) International Publication Date
22 September 2005 (22.09.2005)

PCT

(10) International Publication Number
WO 2005/089003 A1

(51) International Patent Classification⁷: **H04Q 7/38**,
H04L 12/56

(21) International Application Number:
PCT/IB2004/000349

(22) International Filing Date: 11 February 2004 (11.02.2004)

(25) Filing Language: English

(26) Publication Language: English

(71) Applicant (for all designated States except US): **NOKIA CORPORATION** [FI/FI]; Keilalahdentie 4, Espoo 02150 (FI).

(72) Inventor; and

(75) Inventor/Applicant (for US only): **SEBIRE, Benoist** [FR/CN]; East Lake Villas - A1103 35., Dongzhimenwai Dajie, Beijing 100027 (CN).

(74) Agent: **UNGERER, Olaf**; Eisenführ, Speiser & Partner, Arnulfstrasse 25, 80335 Munich (DE).

(81) Designated States (unless otherwise indicated, for every kind of national protection available): AE, AG, AL, AM,

AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.

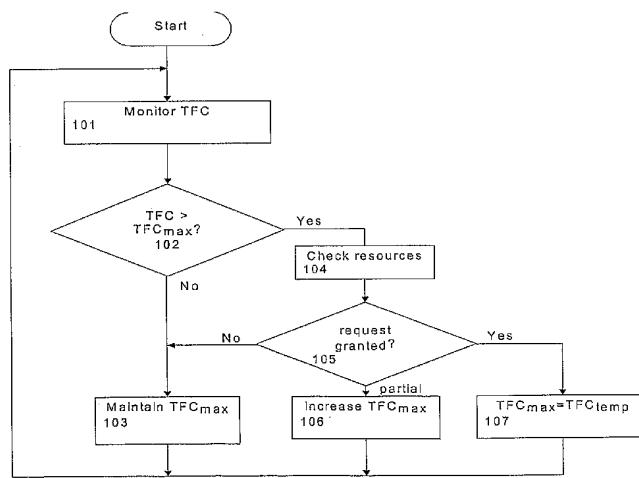
(84) Designated States (unless otherwise indicated, for every kind of regional protection available): ARIPO (BW, GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

Published:

- with international search report
- with amended claims

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

(54) Title: SCHEDULING WITH HIDDEN RATE REQUEST



(57) **Abstract:** The present invention relates to a terminal device and to a scheduling method and device for scheduling data transmission over a plurality of channels in a data network. A predetermined parameter, e.g. a TFC value, indicating a channel capacity in a received data stream of at least one of the plurality of channels is monitored, and a request for change of the maximum channel capacity allocated to the at least one of the plurality of channels is determined, if the value the monitored predetermined parameter falls outside a predetermined allowed range. The terminal device is configured to set a predetermined parameter indicating a channel capacity to a value outside the predetermined allowed range in order to request a change of the maximum channel capacity. Thereby, an explicit capacity request signaling from the data source to the scheduling functionality can be avoided without introducing additional latency, and physical layer resources can be increased for improved data transmission.

WO 2005/089003 A1